

# इंटरनेट

# मानक

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“The Right to Information, The Right to Live”

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Jawaharlal Nehru

“Step Out From the Old to the New”

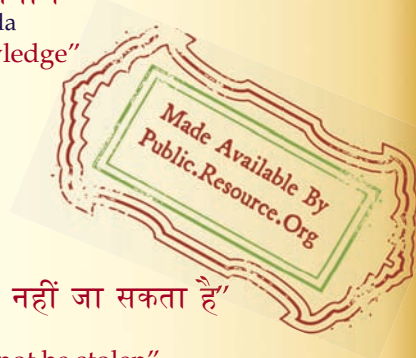
IS 10304 (1982): Specification for Feed Rock Shaft for Sewing Machines for Household Purposes [MED 29: Sewing Machines]



“ज्ञान से एक नये भारत का निर्माण”

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“Invent a New India Using Knowledge”



“ज्ञान एक ऐसा खजाना है जो कभी चुराया नहीं जा सकता है”

Bhartrhari—Nitiśatakam

“Knowledge is such a treasure which cannot be stolen”



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Indian Standard

# SPECIFICATION FOR FEED ROCK SHAFT FOR SEWING MACHINES FOR HOUSEHOLD PURPOSES

**1. Scope** — Lays down the requirements for feed rock shaft for sewing machines for household purposes.

**2. Nomenclature** — Shall be as shown in Fig. 1.

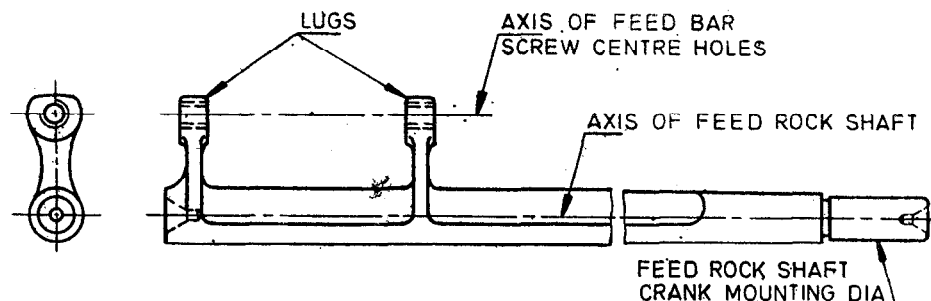
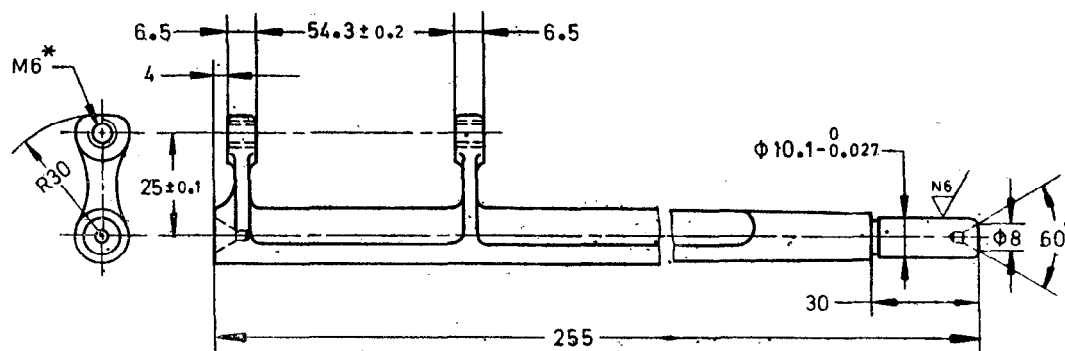


FIG. 1 NOMENCLATURE FOR FEED ROCK SHAFT

**3. Material** — The feed rock shaft shall be made from cast iron conforming to grade FG 150 of IS : 210-1978 ' Specification for grey iron castings ( *third revision* ) '.

**4. Dimensions** — Shall be as shown in Fig. 2.



\*Non-metric threads may also be used till the complete changeover to metric system is effective.

All dimensions in millimetres.

FIG. 2 DIMENSIONS FOR FEED ROCK SHAFT

**5. Tolerances** — The error in parallelism of the axis of feed rock shaft with the axis of feed bar screw centre holes shall not exceed 0.3 mm per 100 mm.

## 6. Workmanship and Finish

**6.1** The feed rock shaft crank mounting diameter and the centre holes shall be ground to a fine finish.

**6.2** The casting shall be free from defects, such as cracks, flaws or blow holes and shall be suitably plated.

**7. Marking** — The feed rock shafts shall be marked with the manufacturer's name or trade-mark, if required.

**7.1 ISI Certification Marking** — Details available with the Indian Standards Institution.

**8. Packing** — Each feed rock shaft shall be either given a suitable antirust coating or wrapped in vapour phase inhibitor paper (commonly known as VPI paper). Wrapped feed rock shafts shall be securely packed in accordance with best prevalent trade practice. Each packing shall bear the manufacturer's name or trade-mark, the type and description of content.

## 9. Sampling

**9.1** Unless otherwise agreed between the supplier and the purchaser, the sampling plan as given in Appendix A shall be followed. For further information, reference may be made to IS : 2500 (Part I)-1973 'Sampling inspection tables : Part I Inspection by attributes and by count of defects (first revision)'.

## APPENDIX A

(Clause 9.1)

### SCALE OF SAMPLING AND CRITERIA FOR CONFORMITY

#### A-1. Scale of Sampling

**A-1.1 Lot** — In any consignment, all the feed rock shafts of the same type and manufactured from the same material under essentially similar conditions of manufacture shall be grouped together to constitute a lot.

**A-1.2** For ascertaining the conformity of the lot to the requirements of the specification, tests shall be carried out for each lot separately. The number of feed rock shafts to be selected at random for this purpose shall be in accordance with col 1 and 2 of Table 1.

**A-1.3** If the feed rock shafts are packed individually, in order to ensure the randomness of selection, IS : 4905-1968 'Methods for random sampling' shall be used.

**A-1.4** If the feed rock shafts are packed in different cartons, a suitable number of cartons (not less than 20 percent of the total in the lot subject to a minimum of 2) shall be chosen at random. From each of the cartons so chosen, an approximately equal number of feed rock shafts shall be picked up from its different parts so as to obtain the required number of feed rock shafts specified in col 2 of Table 1.

#### A-2. Number of Tests and Criteria for Conformity

**A-2.1** The feed rock shafts selected according to A-1.2 and A-1.3 or A-1.4 shall be examined for dimensions (see 4), tolerances (see 5) and workmanship and finish (see 6). If number of feed rock shafts failing to meet one or more of the requirements mentioned above is less than or equal to the permissible number of defectives given in col 3 of Table 1, the lot shall be declared as conforming to the requirements of these characteristics.

**TABLE 1 SCALE OF SAMPLING AND PERMISSIBLE NUMBER OF DEFECTIVES**

(Clauses A-1.2, A-1.4 and A-2.1)

Number of Feed Rock Shaft N (1)	For Dimensions, Tolerances, Workmanship and Finish	
	Sample Size n (2)	Permissible Number of Defectives* (3)
Up to 15	5	0
16 to 40	8	0
41 to 110	13	0
111 to 300	20	1
301 to 500	32	1
501 to 800	50	2
801 to 1300	80	3
1301 and above	125	5

\*This ensures that lots containing only 1.5 percent or less defectives shall be accepted most of the time.

### EXPLANATORY NOTE

This Standard has been prepared to unify and rationalize the types and sizes of sewing machines components for manufacturing in economic quantities.